Run Video Chat within your Unity application (iOS)

When playing games with your friends, the real fun comes when you can trash-talk and gloat on how good you are! Whether you are playing a first-person shooter or playing a game of poker, you want to be able to communicate with your team or see the competitors' reactions to see if they are bluffing. More mobile games are adding real-time communication within their app to increase user stickiness and user engagement.

The <u>Agora Video SDK</u> for Unity enables you to add in-game real-time communications to increase interactivity between players with minimum impact on the gameplay.

A sample app is included in the Unity Asset and demonstrates the basic Agora SDK features:

- Join a Channel
- · Leave a Channel
- · Video Chat with multiple participants

This blog post will enable you to run the sample app on an iOS device within a few minutes.

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Prerequisites

- Agora.io Developer Account
- Unity 3D 5.5+

Get an Agora Developer Account & App ID

To build and run the sample application you must obtain an App ID:

- 1. Create a developer account at <u>agora.io</u>. Once you finish the signup process, you will be redirected to the Dashboard.
- 2. Navigate in the Dashboard tree on the left to **Projects > Project List**.
- 3. Copy the App ID that you obtained from the Dashboard into a text file. You will use this when you launch the app.

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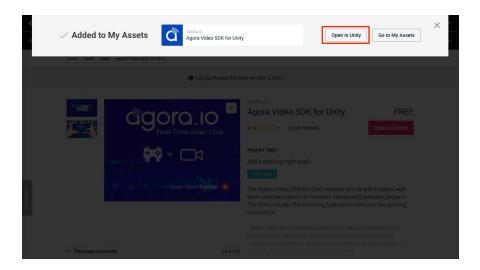
Set up the Demo Application

1. Add <u>Agora Video SDK for Unity</u> to your assets from the Unity Asset Store.

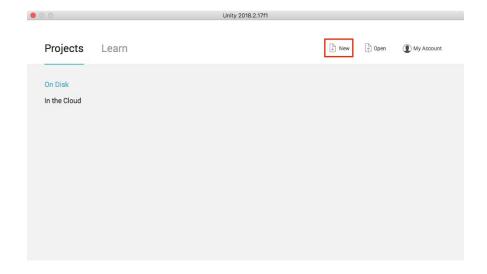
Note: If you see a **Terms of Service** page, click **Accept** to add the project.

Once the project has been added, a confirmation message will appear at the top of the screen.

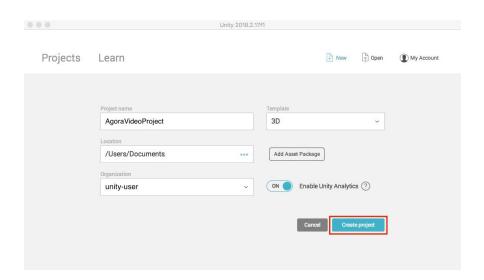
2. Click **Open in Unity** to launch Unity.



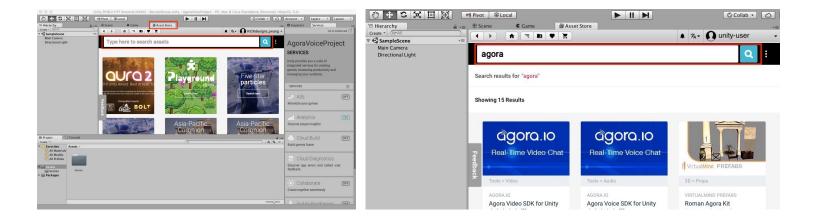
3. When Unity opens, click **New** to start a new project.



4. Click **Create project** to create a new project.



5. Once your project is created, ensure the **Asset Store** tab is selected. If the Agora Video project is not already loaded, search for **Agora** in the search box.



Find the **Agora Video SDK for Unity** project. Click the project box to open the project details.

6. Scroll down and click **Download**.

Note: The button changes to a loading bar to show download progress.

- 7. When the download is complete, the **Import** button will appear. Click **Import** to load Agora Video into your project.
- 8. Scroll through the asset list to familiarize yourself with the project structure and click **Import** to add the Agora.io assets into your current project.



Note: Depending on your version of Unity, you may see and API Update Required alert window.

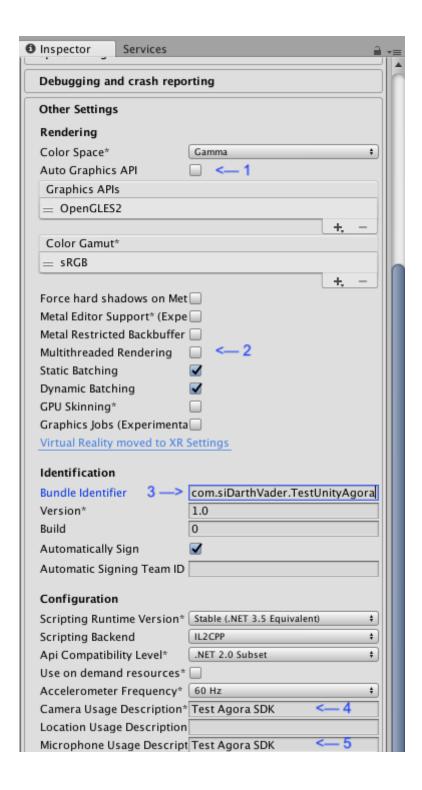
Once the assets are imported, double click the **TestSceneScript.cs** file. In the **TestSceneScript** class, update **YOUR APP ID** with your App ID.

```
private string appId = "YOUR APP ID";
```

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Running the Sample Application

Open the **Build Settings** and add the TestSceneHome.unity & TestSceneHomeWorld.unity scenes to the compilation and select the compilation platform (iOS)



- Open the Player Settings panel deselect the Auto Graphics API option. Within the Graphics API options that are visible, make sure that only OpenGLES2 is on the list and remove any other APIs that appear on the list. Note: You may need to add OpenGLES2 by using the + icon)
- 2. Next, deselect the Multithreaded Rendering option.

- 3. Change the Bundle Identifier to your own Bundle identifier so XCode can properly codesign the application.
- 4. Ensure the microphone permission has a description to allow the user to know why the microphone is being accessed by the application
- 5. Ensure the camera permission has a description to allow the user to know why the camera is being accessed by the application

6. Once all the setup is complete click **Build and Run.** Once XCode opens up, enable auto-signing (*or sign the project*) and run the sample application on your iOS test device. **Note:** The sample app will not run in the simulator as there is no way to access the camera and microphone on a simulator.

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Other Resources

- A detailed code walkthrough for this sample is available within the Unity Asset under the Guide file.
- The complete API documentation is available in the <u>Document</u> <u>Center</u>.
- For technical support, submit a ticket using the Agora Dashboard.